



IN REPLY  
REFER TO:

# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Oil Shale Projects Office  
764 Horizon Dr.  
Grand Junction, CO 81501

October 12, 1983

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DIVISION OF  
OIL, GAS & MINING

## Memorandum


To: Oil Shale Project Manager  
From: John Miley, Mining Engineer  
Subject: Tract U-a/U-b Inspections - Mining

Personnel Present: Ted Rybicki WROSC  
Ed Vanderpas F-K  
John Miley OSO

## Activities:

### Mining-

1. The bottom of the shaft was at 678 feet and had been extended into the pre-grouted section of the Bird's Nest aquifer. The shaft bottom was twenty-five feet into the water bearing zone of the aquifer. A very successful grouting job was done on the upper ring, as only a slight seep of water was evident on the shaft wall.
2. The lower ring was being grouted using the same chemical grout material as in the upper ring. Forty drill holes with a fourteen degree spin were drilled around the periphery of the shaft bottom to a depth of sixty feet. This extended them through the bottom of the aquifer about ten feet into the lower marlstone. Upon completion of the grouting of this ring, three test holes will be drilled from the shaft bottom to penetrate the aquifer. These holes will be tested for any water make before sinking is resumed.

John Miley 

xc: L. Carie BLM  
L. Ferguson BLM  
T. Portal UDOGM  
W. Hawes U-a/U-b  
B. Hobbs U-a/U-b  
J. Godlove U-a/U-b  
J. Goff U-a/U-b